# Author Index to Volume 33

Abe M, Asfora WT, deSalles AAF, Kjellberg RN. Cerebellar venous angioma associated with angiographically occult brain stem vascular malformation. Report of two cases, 400
Áfra D. *See* Slowik F
Aguilera M. *See* Madrazo I
Akimura T. *See* Yamashita K
Alexander E Jr. 154-ed, 157-ed, 362-ed
*Atlas of Human Anatomy*, 231-br
*Atlas of Spinal Surgery*, 162-br
*Intracranial Pressure VII*, 298-br
John Raymond Green, 365-ed
*Rob & Smith's Operative Surgery*, 161-br
One hour of medical history, 64-ed
Preface, 5
Alexander E III. *See* Rossitch E
Alp H. *See* Orbay T
Andrews BT, Mampalam TJ, Omsberg E, Pitts LH. Intraoperative ultrasound imaging of the entire brain through unilateral exploratory burr holes after severe head injury: technical note, 291
Andrews J. 158-le
Antunovic V. *See* Samardzic M
Aoki H. *See* Yamashita K
Aoki N
Sakai T. Avulsion of choroid plexus during revision of ventricular shunting: its high incidence and predictive value on computed tomography scan, 256
Sakai T, Oikawa A, Tsutsumi K. Significance of preserving bridging veins in an interhemispheric approach, 159-le
Asfora WT. *See* Abe M
Ausman JI.
*See* de los Reyes RA
*See* Morgan JK
*See* Sadasivan B

Baba M. *See* Komiyama M
Ballestin C. *See* Mollejo M
Bernardi C. *See* Ciappetta P
Black KL. *See* Bucci MN
Black PMcL. *See* Rossitch E
Boehm FH, Jr. *See* de los Reyes RA
Boop F. *See* Firsching R

KEY TO ABBREVIATIONS
br = book review
ed = editorial
en = editorial note
le = letter to the editor

Branch C Jr.
*Advances and Technical Standards in Neurosurgery, Volume 16*, 78-br
*Principles of Microsurgery for Lumbar Disc Disease*, 78-br
Brenowitz G, Yonas H. Selective occlusion of blood supply to the anterior perforated substance of the dog: a highly reproducible stroke model, 247
Bucci MN
Black KL, Hoff JT. Arachidonic acid metabolite production following focal cerebral ischemia: time course and effect of meclofenamate, 12
McGillicuddy JE, Taren JA, Hoff JT. Management of anteriorly located C1-C2 neurofibromata, 15
Bucy PC. 230-le
Kenji Tanaka, 81-obituary
Bullock R, 296-le
Burger PC. Pathologists as consultants, 74-ed

Canavero S. *See* Pagni CA
Cantu R. *Sports Neurology*, 231-br
Carey ME. Neurosurgeons must fight animal activists, 373-ed
Çatalrepe O, Inci S, Özcan OE, Sağlam S, Erbengi A. Aneurysmal bone cyst of the frontal bone, 391
Chang J-Y. *See* von Mecklenburg C
Chang M-F. *Advances in Neurosurgery 17: Head Injuries: Prognosis-Evoked Potential-Microsurgery-Brain Death*, 79-br
Chou SN. William Thomas Peyton, 371
Ciappetta P, Salvati M, Bernardi C, Raco A, Di Lorenzo N. Giant cell reparative granuloma of the skull base mimicking an intracranial tumor. Case report and review of the literature, 52
Coca S. *See* Vaquero J
Coffey RJ
International perspective: neurologic surgery in Nicaragua, 1989, 356
*See* Thompson BG
Collins JJ, Fisher WS III. Vein of Galen aneurysm presenting with recurrent aseptic meningitis and subsequent spontaneous thrombosis, 325
Coutinho C. *See* Statham P
Crandall PH. *See* Gochman GA

de los Reyes RA, Boehm FH Jr, Ehler W, Kennedy D, Shagets F, Woodruff W, Smith T, Ausman JI. Direct angioplasty of the basilar artery in baboons, 185
Deák G. *See* Slowik F

Del Bigio MR. 366-le
Delgado T. *See* von Mecklenburg C
DeSalles AAF. *See* Abe M
Di Lorenzo N. *See* Ciappetta P
Dom R. *See* Ho Y-S
Dubuisson D. *See* Lam C
Duffy K. *See* Gochman GA

Ehler W. *See* de los Reyes RA
Elster AD. *MRI Atlas of the Brain*, 419-br
Erbengi A. *See* Çatalrepe O
Ercan SZ. *See* Orbay T
Ergün R. *See* Orbay T

Fewer D. *See* Reddy K
Firsching R, Müller W, Thun F, Boop F. Clinical correlates of erythropoiesis in chronic subdural hematoma, 173
Fisher WS III. *See* Collins JJ
Flickinger JC. *See* Thompson BG
Forni M. *See* Pagni CA
Franco-Bourland R. *See* Madrazo I
Fu Y. *See* Komiyama M
Fujii K. *See* Matsushima T
Fujiwara S. *See* Matsushima T
Fukui K. *See* Nakagawa K
Fukui M. *See* Matsushima T
Fukushima T, Hirakawa K, Kimura M, Tomonaga M. Intraventricular craniopharyngioma: its characteristics in magnetic resonance imaging and successful total removal, 22
Garner TB. *Operative Neurosurgical Techniques: Indications, Methods and Results*, 418-br
Gilbert JW
Lee C, Young B. Repeat cerebral pan-angiography in subarachnoid hemorrhage of unknown etiology, 19
*See* Weiser HC
Glick RP. *See* Reyes MG
Gochman GA, Duffy K, Crandall PH, Vinters HV. Plasma cell granuloma of the brain, 347
Goffin J. *See* Ho Y-S
Göksel M. *See* Orbay T
Gondou T. *See* Yamashita K
Grujicic D. *See* Samardzic M
Gufzar-Sahagún G. *See* Madrazo I

Hadeishi H. *See* Tomura N
Hadfield MG. *See* Zimmerman RS
Hadley D. *See* Statham P
Halliday WJ. *See* Kaufman AM
Handa J. *See* Nakasu S
Hara A, Hirayama H, Sakai N, Yamada H, Tanaka T, Mori H. Correlation between nucleolar organizer region

staining and K1-67 immunostaining in human gliomas, 320
Hargraves RW. *See* Heaton RB
Hável J. *See* Slowik F
Hayashi Y. *See* Tachibana O
Heaton RB, Wright LS, Hargraves RW, Kragel PJ. Coagulopathy and warfarin-associated breast necrosis in a patient with a primary brain tumor, 395
Heinel LA. *See* Vasthare US
Henkel CK. *Perukopf Anatomy: Atlas of Topographic and Applied Human Anatomy, Volume I, Head and Neck*, 163-br
Hernesniemi J, Keränen T. Microsurgical treatment of arteriovenous malformations of the brain in a defined population, 384
Higano S. *See* Tomura N
Higashi T. *See* Yamasaki T
Hirakawa K. *See* Fukushima T
Hirano A. *See* Inagawa T
Hirayama H. *See* Hara A
Hitchon PW. *See* Osenbach RK
Ho Y-S, Plets C, Goffin J, Dom R. Hemangioblastoma of the lateral ventricle, 407
Hodes JE. *See* Obana WG
Hoff JT. *See* Bucci MN
Hoffman JJ. E. Bruce Hendrick, 171
Homsi MF. *See* Reyes MG
Hornig GW, Shillito J Jr. Intestinal perforation by peritoneal shunt tubing: report of two cases, 288
How S-W. *See* Hung K-L
Huang J-S. *See* Hung K-L
Hung K-L, Wu C-M, Huang J-S, How S-W. Familial medulloblastoma in siblings: report in one family and review of the literature, 341

Ikeda K, Ito H, Yamashita J. Relation of regional cerebral blood flow to hemiparesis in chronic subdural hematoma, 87
Inagawa T
Effect of early operation on cerebral vasospasm, 239
Hirano A. Ruptured intracranial aneurysm: an autopsy study of 133 patients, 117
İnci S. *See* Çataltepe O
Inugami A. *See* Tomura N
Ito H. *See* Ikeda K

Jiminez C. *See* Vaquero J
Johnston R. *See* Statham P
Joksimovic M. *See* Samardzic M

Kaufmann AM, Reddy KKV, West M, Halliday WJ. Alkaptonuric ochronosis and multiple intracranial aneurysm, 213
Kawano K. *See* Yamashita K
Kennedy D. *See* de los Reyes RA
Keränen T. *See* Hernesniemi J
Kikuchi H. *See* Yamasaki T
Kikuchi Y. *See* Matsumura A
Kimura M. *See* Fukushima T
Kitamura K. *See* Matsushima T
Kjellberg RN. *See* Abe M
Kohno K, Sakaki S, Shiraishi T, Matsuoka K, Okamura H. Successful treatment of adult Arnold-Chiari malformation associated with basilar impression and syringomyelia by the transoral anterior approach, 284
Komiyama M, Morikawa K, Fu Y, Yagura H, Yasui T, Baba M. Indirect carotid-cavernous sinus fistula: transvenous embolization from the external jugular vein using a superior ophthalmic vein approach. A case report, 57
Kragel PJ. *See* Heaton RB
Kurokawa Y, Okamura T, Watanabe K. Transcerebellar thrombectomy for the successful clipping of thrombosed giant vertebral artery-posterior inferior cerebellar artery aneurysm: case report, 217
Kuwabara Y. *See* Matsushima T

Lam C, Dubuissson D. Treatment of hemispheric collapse and herniation beneath the falx in a case of shunted hydrocephalus, 202
Lee C
*See* Gilbert JW
*See* Sadasivan B
Lesiuk H. *See* Reddy K
Lunsford LD. *See* Thompson BG
Lupret V, Vidović D, Negovetić L, Novak M. Surgical approach to a large basilar artery bifurcation and upper basilar trunk aneurysm: case report, 404

Madrazo I, Franco-Bourland R, Aguilera M, Reyes P, Guízar-Sahágun G. Balloon needle for the atraumatic transcortical ventricular approach: technical note, 226
Malik GM. *See* Sadasivan B
Mampalam TJ. *See* Andrews BT
Manaka S. *See* Mizutani T
Mangkornkanong M. *See* Reyes MG
Marchese MJ, McDonald JV. Intramedullary melanotic schwannoma of the cervical spinal cord: report of a case, 353
Martinez R. *See* Vaquero J
Matsuda M. *See* Nakasu S
Matsumura A, Meguro K, Tsurushima H, Kikuchi Y, Wada M, Nakata Y. Magnetic resonance imaging of spinal cord injury without radiologic abnormality, 281
Matsumura K. *See* Nakasu S
Matsuoka K. *See* Kohno K
Matsushima T, Fukui M, Fujii K, Fuziwara S, Nagata S, Kitamura K, Kuwabara Y. Two pediatric cases with occlusions of the ipsilateral internal carotid and posterior cerebral arteries associated with Moyamoya vessels: "unilateral" Moyamoya disease, 276
Mayer A. *See* Slowik F
McDonald JV. *See* Marchese MJ
McGillicuddy JE. *See* Bucci MN
McLean WT. *Quantification of Neurologic Deficit*, 163-br
Meguro K. *See* Matsumura A
Mehta B. *See* Morgan JK
Menezes AH. *See* Osenbach RK
Meredith JW. *Complications in Surgery and Trauma*, 298-br
Millán JM. *See* Mollejo M
Miller JD. 157-le
Mizutani T, Manaka S, Tsutsumi H. Estimation of intracranial pressure using computed tomography scan findings in patients with severe head injury, 178
Mollejo M, Millán JM, Ballestin C, Serrano C. Cranial fasciitis of childhood with reactive periositis, 146
Moore MR. *See* Rossitch E Jr
Morgan H. Dostoevsky's epilepsy: a case report and comparison, 413
Morgan JK, Sadasivan B, Ausman JI, Mehta B. Thrombolytic therapy and posterior circulation extracranial-intracranial bypass for acute basilar artery thrombosis. Case report, 43
Mori H. *See* Hara A
Morikawa K. *See* Komiyama M
Moritake K. *See* Yamasaki T
Müller W. *See* Firsching R

Nagata S. *See* Matsushima T
Nair KR. Craniopagus parasiticus, 159-le
Nakagawa K, Sakaki S, Fukui K, Sadamoto K. Intracranial nonspecific inflammatory granuloma, 221
Nakasu S, Nakasu Y, Matsumura K, Matsuda M, Handa J. Interface between the meningioma and the brain on magnetic resonance imaging, 105
Nakata Y. *See* Matsumura A
Nakusu Y. *See* Nakasu S
Negovetić L. *See* Lupret V
Nonomura A. *See* Tachibana O
Novak M. *See* Lupret V
Nyáry I, Pásztor E. Ethics corner-Neurosurgery and the law: the Hungarian pattern, 75-ed

Obana WG, Hodes JE, Weinstein PR, Wilson CB. Cerebrospinal fluid rhinorrhea in patients with untreated pituitary adenoma: report of two cases, 336
Oikawa A. *See* Aoki N
Okamura H. *See* Kohno K

Okamura T. *See* Kurokawa Y
Oki H. *See* Tachibana O
Omsberg E. *See* Andrews BT
Opalak ME. 297-le
Orbay T
Ercan SZ, Seckin Z, Goksel M. Pharmacologic response of endothelium to microvascular temporary clip application, 192
Seckin Z, Ergun R, Alp H. Double donor, single-lumen, end-to-side anastomosis, 253
Osenbach RK, Hitchon PW, Menezes AH. Diagnosis and management of pyogenic vertebral osteomyelitis in adults, 266
Owman C. *See* von Mecklenburg C
Özcan OE. *See* Çataltepe O

Pagni CA, Canavero S, Forni M. Report of a cavernoma of the cauda equina and review of the literature, 124
Pásztor E. *See* Nyári I
Pitts LH. *See* Andrews BT
Piets C. *See* Ho Y-S

Raco A. *See* Ciappetta P
Reddy K, Lesiuk H, West M, Fewer D. False aneurysm of the cavernous carotid artery: a complication of transsphenoidal surgery, 142
Reddy KKV. *See* Kaufmann AM
Reyes MG, Homsi MF, Mangkornkanong M, Stone J, Glick RP. Malignant lymphoma presenting as a chronic subdural hematoma, 35
Reyes P. *See* Madrazo I
Riella AR
*Cerebral Computed Tomography-A Text-Atlas*, 164-br
*Topographic Brain Mapping of EEG and Evoked Potentials*, 162-br
Rosenwasser RH. *See* Vasthare US
Rossi GF. A view from Europe: subspecialization in neurosurgery, 154
Rossitch E Jr, Moore MR, Alexander E III, Black PMcL. Historical vignette-The neurosurgeon's neurosurgeon: Cushing operates on a Penfield, 150-ed
Rovit RL. The Professional Liability Committee of the American College of Surgeons: some comments on the whole being more effective than the sum of its parts, 362
Sadamoto K. *See* Nakagawa K
Sadasivan B, Malik GM, Lee C, Ausman JI. Vascular malformations and pregnancy, 305
Sadasivan B. *See* Morgan JK
Sağlam S. *See* Çataltepe O
Sahlin C. *See* von Mecklenburg C
Sakai N. *See* Hara A
Sakai T. *See* Aoki N
Sakaki S
*See* Kohno K
*See* Nakagawa K
Salvati M. *See* Ciappetta P
Samardzic M, Grujicic D, Antunovic V, Joksimovic M. Reinnervation of avulsed brachial plexus using the spinal accessory nerve, 7
Scherzer AL. *Rehabilitation of the Adult and Child with Traumatic Brain Injury*, 417-br
Seçkin Z. *See* Orbay T
Serrano C. *See* Mollejo M
Shagets F. *See* de los Reyes RA
Shillito J Jr. *See* Hornig GW
Shiraishi T. *See* Kohno K
Slowik F, Mayer A, Áfra D, Deák G, Hável J. Primary spinal intramedullary malignant lymphoma. A case report, 132
Smith T. *See* de los Reyes RA
Spector B. One hour of medical history. Selected excerpts, 64
Statham P, Johnston R, Coutinho C, Hadley D. Double giant fusiform aneurysm of the posterior cerebral artery, 48
Stern WE. A statement concerning neurosurgery in the undergraduate medical curriculum, 5
Stone J. *See* Reyes MG
Svengaard N-A. *See* von Mecklenburg C
Sypert GW. *Complications of Spine Surgery*, 298-br

Tachibana O, Oki H, Hayashi Y, Nonomura A, Yamashima T, Yamashita J. Repetitive intratumoral hemorrhage in medulloblastoma. A case report, 378
Tanaka T. *See* Hara A
Tang L-M. Ventriculoperitoneal shunt in cryptococcal meningitis with hydrocephalus, 314
Taren JA. *see* Bucci MN
Thompson BG, Coffey RJ, Flickinger JC, Lunsford LD. Stereotactic radiosurgery of small intracranial tumors: neuropathologic correlation in three patients, 96
Thun F. *See* Firsching R
Tomonaga M. *See* Fukushima T
Tomura N, Inugami A, Higano S, Uemura K, Hadeishi H, Yasui N. A case of medullary venous malformations with an arterial component coexisting with arteriovenous malformations, 37
Tsurushima H. *See* Matsumura A
Tsutsumi H. *See* Mizutani T
Tsutsumi K. *See* Aoki N
Tuma RF. *See* Vasthare US

Uemura K. *See* Tomura N

Vaquero J, Coca S, Martinez R, Jiménez C. Convexity meningioma and glioblastoma in children, 139
Vasthare US, Heinel LA, Rosenwasser RH, Tuma RF. Leukocyte involvement in cerebral ischemia and reperfusion injury, 261
Vidović D. *See* Lupret V
Vinters HV. *See* Gochman GA
von Mecklenburg C, Chang J-Y, Delgado T, Owman C, Sahlin C, Svengaard N-A. Utrastructural cerebrovascular changes in a model of subarachnoid hemorrhage in baboon based on triple cisternal blood injection, 195

Wada M. *See* Matsumura A
Wakuta Y. *See* Yamashita K
Watanabe K. *See* Kurokawa Y
Weinstein PR. *See* Obana WG
Weiser HC, Gilbert JW. 230-le
West M
*See* Kaufmann AM
*See* Reddy K
Wilkinson HA, 296-le
Wilson CB. *See* Obana WG
Woodruff W. *See* de los Reyes RA
Wright LS. *See* Heaton RB
Wu C-M. *See* Hung K-L

Yagura H. *See* Komiyama M
Yamabe H. *See* Yamasaki T
Yamada H. *See* Hara A
Yamasaki T, Kikuchi H, Higashi T, Yamabe H, Moritake K. Two surgically cured cases of subependymoma with emphasis on magnetic resonance imaging, 329
Yamashima T. *See* Tachibana O
Yamashita J
*See* Ikeda K
*See* Tachibana O
Yamashita K, Akimura T, Kawano K, Wakuta Y, Aoki H, Gondou T. Cerebral sparganosis mansoni. Report of two cases, 28
Yasui N. *See* Tomura N
Yasui T. *See* Komiyama M
Yonas H. *See* Brenowitz G
Young B. *See* Gilbert JW
Young HF. *See* Zimmerman RS

Zimmerman RS, Young HF, Hadfield MG. Granulomatous angiitis of the nervous system: a case report of long-term survival, 206

# Subject Index to Volume 33

Acoustic nerve, tumor, stereotactic radiosurgery of, 96
Adenoma, pituitary, untreated, cerebrospinal fluid rhinorrhea in, 336
Adult Arnold-Chiari malformation, treatment, transoral anterior approach, 284
Akin Moyamoya disease, 276
Alkaptonuric ochronosis, intracranial aneurysm and, 213
American College of Surgeons, Professional Liability Committee of, 362-ed
Anastomosis
  double-donor, single-lumen, end-to-side, 253
  extracranial to intracranial, for basilar artery thrombosis, 43
Anatomy, dog, of arterial supply, 247
Aneurysm
  basilar artery
    in baboons, direct angioplasty of, 185
    bifurcation and trunk, 404
  cerebral, 239, 399
  decompression, of giant intracranial aneurysms, 217
  false, of cavernous carotid artery, 142
  fusiform, giant, double, of posterior cerebral artery, 48
  intracranial, alkaptonuric ochronosis and, 213
  size, ruptured compared to unruptured, 117
  surgery, for thrombosed vertebral artery-posterior inferior cerebellar artery aneurysm, 217
  vein of Galen, 325
Aneurysmal bone cyst, of frontal bone, 391
Angiitis, granulomatous, 206
Angiography, *See* Cerebral angiography; Pan-angiography
Angioma, cavernous, of cauda equina, 124
Angioplasty, direct, of basilar artery, in baboons, 185
Animal activists, neurosurgeons fighting of, 373-ed
Antibiotics, for pyogenic vertebral osteomyelitis, 266
Arachidonic acid, metabolite, production, following focal cerebral ischemia, meclofenamate and, 12
Arnold-Chiari malformation, adult, treatment, transoral anterior approach, 284
Arteriovenous malformation
  arterial component coexisting with, medullary venous malformation with, 37
  brain, microsurgical treatment of, 384
  in pregnancy, 305
  in vein of Galen aneurysm, 325
Aseptic meningitis, in vein of Galen aneurysm, 325
Autopsy, on ruptured intracranial aneurysm, 117
Avulsion, of choroid plexus, during revision of ventricular shunting, 256

Baboon
  basilar artery, direct angioplasty of, 185
  subarachnoid hemorrhage in, ultrastructural cerebrovascular changes in, based on triple cisternal blood injection, 195
Ballon needle, for atraumatic transcortical ventricular approach, 226
Basilar artery
  aneurysm, bifurcation, surgical approach to, 404
  angioplasty, direct, in baboons, 185
  thrombosis, acute, thrombolytic therapy and posterior circulation extracranial-intracranial bypass for, 43
Basilar impression, adult Arnold-Chiari malformation associated with, treatment, transoral anterior approach, 284
Basilar stenosis, in baboons, direct angioplasty of, 185
Benign skull tumor, aneurysmal bone cyst, 391
BIOGRAPHIES
  Hendrick, E. Bruce, 171
  Peyton, William Thomas, 371
Blood flow, cerebral, *See* Cerebral blood flow
BOOK REVIEWS
  *Advances and Technical Standards in Neurosurgery, Volume 16*, 78
  *Advances in Neurosurgery 17: Head Injuries: Prognosis-Evoked Potential-Microsurgery-Brain Death*, 79
  *Atlas of Human Anatomy*, 231
  *Atlas of Spinal Surgery*, 162
  *Cerebral Computed Tomography-A Text-Atlas. Third Edition*, 164
  *Complications in Surgery and Trauma*, 298
  *Complications of Spine Surgery*, 298
  *Intracranial Pressure VII*, 298
  *MRI Analysis of the Brain*, 419
  *Operative Neurosurgical Techniques: Indications, Methods, and Results*, 418
  *Pernkopf Anatomy: Atlas of Topographic and Applied Human Anatomy, Vol I, Head and Neck*, 163
  *Principles of Microsurgery for Lumbar Disc Disease*, 78
  *Quantification of Neurologic Deficit*, 163
  *Rehabilitation of the Adult and Child with Traumatic Brain Injury*, 417
  *Rob & Smith's Operative Surgery*, 161
  *Sports Neurology*, 231
  *Topographic Brain Mapping of EEG and Evoked Potentials*, 162
Brachial plexus, avulsed, reinnervation of, using spinal accessory nerve, 3
Brain
  arteriovenous malformation of, microsurgical treatment of, 384
  herniation, in shunted hydrocephalus, 202
  neoplasm
    hemangioblastoma, lateral ventricle, 407
    interface, with meningioma, on magnetic resonance imaging, 105
    stereotactic radiosurgery of, 96
Brain stem, vascular malformation, angiographically occult, cerebellar venous angioma associated with, 400
Bridging veins, preservation of, in interhemispheric approach, 159-le
Bucy, Paul C.
  first honorary membership of The Neurosurgical Association of Thailand, 295
  Sano Lecture, 157-ed
Burr holes, unilateral exploratory, intraoperative ultrasound imaging of brain through, in head injury, 291

Carotid artery, *See* specific carotid artery
Carotid-cavernous fistula, embolization of, 57
Cauda equina, cavernoma of, 124
Cavernoma, of cauda equina, 124
Cavernous angioma, of cauda equina, 124
Cavernous carotid artery, aneurysm of, false, transsphenoidal surgery and, 142
Central nervous system, granulomatous angiitis of, 206
Cerebellum, venous angioma, associated with angiographically occult brain stem vascular malformation, 400
Cerebral aneurysm
  cerebral vasospasm following, effect of early operation on, 239
  surgical approach to, 404

KEY TO ABBREVIATIONS

br = book review
ed = editorial
en = editorial note
le = letter to the editor

Cerebral angiography, of cerebellar venous angioma and occult brain stem vascular malformation, 400
Cerebral artery, posterior, *See* Posterior cerebral artery
Cerebral blood flow, relation to hemiparesis in chronic subdural hematoma, 87
Cerebral circulation, microvascular temporary clip application and, 192
Cerebral ischemia
focal, 247
arachidonic acid metabolite production following, meclofenamate and, 12
leukocyte involvement in, 261
Cerebral pan-angiography, repeat, in subarachnoid hemorrhage, of unknown etiology, 19
Cerebral revascularization, double-donor, single-lumen, end-to-side anastomosis, 253
Cerebral sparganosis mansoni, surgical excision of, 28
Cerebral vasospasm, effect of early operation on, 239
Cerebrospinal fluid rhinorrhea, in untreated pituitary adenoma, 336
Cerebrospinal fluid shunt
hemispheric collapse and herniation in, 202
peritoneal tubing, intestinal perforation by, 288
Cervical spine, neurofibromatoma, C1-C2, management of, 15
Chemotherapy, in primary intramedullary lymphoma, 132
Children, *See* Infants and children
Choroid plexus, avulsion, during revision of ventricular shunting, 256
Chronic subdural hematoma
erythropoiesis in, clinical correlates of, 173
hemiparesis in, relation of regional cerebral blood flow to, 87
Cisternal blood, injection, in subarachnoid hemorrhage, ultrastructural cerebrovascular changes in, 195
Coagulopathy, in primary brain tumor therapy, 395
Collagen, pigment deposition and degeneration of, in alkaptonuric ochronosis, 213
Collision tumors, convexity meningioma-glioblastoma, 139
Computed tomography, *See also* single photon emission computed tomography
of cranial fasciitis, in children, 146
intracranial pressure estimation by, in severe head injury, 178
of intracranial nonspecific inflammatory granuloma, 221
meningioma-brain interface and, 105
in sparganosis mansoni, cerebral, 28
in subependymoma, 329
Consultant, pathologist as, 74-ed
Cranial fasciitis, of childhood, 146
Craniopagus parasiticus, 159-le
Craniopharyngioma, intraventricular, magnetic resonance imaging and total removal of, 22
Cryptococcal meningitis, hydrocephalus in, ventriculoperitoneal shunt in, 314
Cushing, Harvey, 150-ed
Cyst, aneurysmal, frontal bone, 391

Direct angioplasty, of basilar artery, in baboons, 185
Dog, anterior perforated substance of, selective occlusion of blood supply to, 247
Donor nerve, spinal accessory, reinnervation of avulsed brachial plexus using, 3
Dostoevsky, epilepsy, 413

Early operation, on cerebral vasospasm, 239
Ecstatic epilepsy, temporal lobe, 413
Editorials, 362
Ethics corner, Neurosurgery and the law: the Hungarian pattern, 75
Green, John Raymond, 365
Historical vignettes
Neurosurgeon's neurosurgeon: Cushing operates on a Penfield, 150
One hour of medical history, 64
Neurosurgeons must fight animal activists, 373
Pathologist as consultant, 74
Professional Liability Committee of the American College of Surgeons: some comments on the whole being more effective than the sum of its parts, 362
Sano Lecture, 157
View from Europe: subspecialization in neurosurgery, 154
Eisenhardt, Louise, 150-ed
Electron microscopy, of ultrastructural cerebrovascular changes in subarachnoid hemorrhage, based on triple cistern blood injection, 195
Embolization, of carotid-cavernous sinus fistula, 57
Endothelium, pharmacologic response, to microvascular temporary clip application, 192
Endothelium-derived relaxing factor, release, following microvascular temporary clip application, 192
Epidural abscess, in pyogenic vertebral osteomyelitis, 266
Epilepsy, Dostoevsky's, 413
Epistaxis, following transsphenoidal surgery, 142
Erythropoiesis, in chronic subdural hematoma, clinical correlates of, 173
Evoked response, somatosensory, 261
Extracranial to intracranial anastomosis, for basilar artery thrombosis, 43

Familial medulloblastoma, in siblings, 341
Fasciitis, cranial, of childhood, 146
Fistula, carotid-cavernous sinus, 57
Focal cerebral ischemia, blood supply occlusion to anterior perforated substance in, 247
Frontal bone, aneurysmal cyst, 391

Gamma unit, in intracranial tumors, 96
Giant aneurysm, vertebral artery-posterior inferior cerebellar artery, thrombosed, clipping of, transcerebellar thrombectomy for, 217
Giant cell reparative granuloma, of skull base, mimicking intracranial tumor, 52
Giant fusiform aneurysm, double, of posterior cerebral artery, 48
Glioblastoma, convexity meningioma in collision with, 139
Glioma, human, correlation between nucleolar organizing region staining and Ki-67 immunostaining in, 320
Granuloma
central nervous system, 206
giant cell reparative, of skull base, mimicking intracranial tumor, 52
inflammatory, nonspecific, 221
plasma cell, of brain, 347
Green, John Raymond, 365-ed

Head injury
brain imaging, intraoperative ultrasound imaging in, through unilateral exploratory burr holes, 294
intracranial pressure estimation in, by computed tomography scans, 178
Hemangioblastoma, of lateral ventricle, 407
Hematoma, subdural
clinical correlates of erythropoiesis in, 173
in head injury, intraoperative ultrasound imaging of brain in, 291
hemiparesis in, relation of regional cerebral blood flow to, 87
from hemispheric collapse and herniation treatment, 202
malignant, lymphoma presenting as, 35
Hemiparesis, in chronic subdural hematoma, relation of regional cerebral blood flow to, 87
Hemorrhage, intracranial
intracerebral, during revision of ventricular shunting, 256
intratumoral, repetitive, in medulloblastoma, 378
intraventricular
during revision of ventricular shunting, 256
in ruptured intracranial aneurysm, 117
subarachnoid, *See* Subarachnoid hemorrhage
Hendrick, E. Bruce, 171
Herniation
brain, 202
transtentorial, after head injury, 291
Herpes zoster infection, in primary intramedullary lymphoma, 132

Histology, of cranial fasciitis, in children, 146
Historical vignettes, *See* under Editorials
Hydrocephalus
in cryptococcal meningitis, ventriculoperitoneal shunt in, 314
in pregnancy, 305
shunted, hemispheric collapse and herniation in, 202
Hypoglossal nerve, palsy, in intracranial nonspecific inflammatory granuloma, 221

Immunohistochemistry, Ki-67, in glioma, 320
Infants and children
cranial fasciitis in, 146
spinal cord injury in, without radiologic abnormality, magnetic resonance imaging of, 281
Interhemispheric approach, bridging vein preservation in, 159-le
Internal carotid arteries, ipsilateral, occlusions of, in unilateral Moyamoya disease, 276
International perspective, Neurological surgery in Nicaragua, 1989, 356
Intestinal perforation, by peritoneal shunt tubing, 288
Intracerebral hematoma, in arteriovenous malformations, 384
Intracerebral hemorrhage, during revision of ventricular shunting, 256
Intracranial granuloma, inflammatory, 221
Intramedullary melanotic schwannoma, of cervical spinal cord, 353
Intraoperative ultrasound, of brain, through unilateral exploratory burr holes, in head injury, 291
Intraventricular hemorrhage
during revision of ventricular shunting, 256
in ruptured intracranial aneurysm, 117
Intraventricular tumor, craniopharyngioma, magnetic resonance imaging and total removal of, 22
Invasion, brain, of meningioma, 105
Ischemia
cerebral, 247
arachidonic acid metabolite production following, meclofenamate and, 12
leukocyte involvement in, 261
vertebrobasilar, 43

Ki-67 immunostaining, in glioma, 320

Lateral ventricle
hemangioblastoma, 407
subependymoma, surgically cured cases, 329
Lectures, Sano, 157-ed
LETTERS TO THE EDITOR, 157, 230, 296, 366
Craniopagus parasiticus, 159
Significance of preserving bridging veins in an interhemispheric approach, 159
Leukocyte, involvement in cerebral ischemia and reperfusion injury, 261
Lymphoma
intramedullary, primary, 132
presenting as chronic subdural hematoma, 35

Magnetic resonance imaging
of Arnold-Chiari malformation, adult, 284
of craniopharyngioma, intraventricular, 22
of granulomatous angiitis of nervous system, 206
of intracranial nonspecific inflammatory granuloma, 221
meningioma-brain interface on, 105
of pyogenic vertebral osteomyelitis, 266
of spinal cord injury, without radiologic abnormality, 281
of subependymoma, 329
Malaria, in Nicaragua, 356
Malignant lymphoma, *See* Lymphoma
Mass lesions, plasma cell granuloma, of brain, 347
Mastectomy, 395
Meclofenamate, time course and effect of, on arachidonic acid metabolite production, following focal cerebral ischemia, 12
Medullary venous malformations, with arterial component coexisting with arteriovenous malformations, 37
Medulloblastoma
familial, in sibling, 341
repetitive intratumoral hemorrhage in, 378
Melanotic schwannoma, intramedullary, of cervical spinal cord, 353
Membranes, subdural, hematopoiesis in, 173
Meningioma
convexity, glioblastoma in collision with, 139
magnetic resonance imaging of, interface with brain, 105
therapy, warfarin-associated breast necrosis in, 395
Meningitis
aseptic, in vein of Galen aneurysm, 325
cryptococcal, 314
Microcatheter, in carotid-cavernous sinus fistula embolization, 57
Microscopy, electron, *See* Electron microscopy
Microsurgery
for arteriovenous malformations, of brain, 384
double-donor, single-lumen, end-to-side anastomosis, 253
Microvascular clip, temporary, pharmacologic response of endothelium to, 192
Morphologic changes, in cerebral arteries, following subarachnoid hemorrhage, 195
Moyamoya disease, unilateral, 276
Multiple aneurysms, basilar artery bifurcation and trunk, surgical approach to, 404
Multiple regression of analysis, computed tomography, intracranial pressure estimation, in severe head injury, 178
Myelopathy, cervical, C1-C2 neurofibromatoma with, 15

Needle, balloon, 226
Neurocysticercosis, surgery, in Nicaragua, 356
Neurofibromatosis, C1-C2, anteriorly located, management of, 15
Neurologic balloon needle, for atraumatic transcortical ventricular approach, 226
Neurologic deficit, in pyogenic vertebral osteomyelitis, 266
Neuropathology, in stereotactic radiosurgery of small intracranial tumors, 96
Neurosurgery
subspecialization in, 154-ed
undergraduate medical curriculum in, statement concerning, 3
Neurosurgical Association of Thailand, first honorary membership, Professor Paul C. Bucy, 195
Nicaragua, neurologic surgery in, 1989, 356
Nodular fasciitis, cranial, of childhood, 146
Nonspecific inflammation, granuloma, intracranial, 221
Nucleolar organizing region, staining, in glioma, 320

Obituary
Green, John Raymond, 365-ed
Tanaka, Kenji, 81
Occlusions, of ipsilateral ICA and PCA, 276
Ochronosis, alkaptonuric, 213
Oligodendroglioma, Penfield and Cushing operation on, 150-ed
Oncogenesis, medulloblastoma, familial, 341
Osteomyelitis, vertebral, pyogenic, 266

Pan-angiography, cerebral, in subarachnoid hemorrhage, of unknown etiology, 19
Pathologist, as consultant 74-ed
Pediatric patients, *See* Infants and children
Penfield, Wilder, 150-ed
Peter Bent Brigham Hospital, 150-ed
Peyton, William Thomas, 371
Pial arteries, morphologic changes in, following subarachnoid hemorrhage, 195

Pituitary gland, adenoma, *See* Adenoma, pituitary
Plasma cell granuloma, of brain, 347
Platinum wire, in carotid-cavernous sinus embolization, 57
Polyclonal plasma cell proliferation, in plasma cell granuloma of brain, 347
Posterior cerebral artery
  double giant fusiform aneurysm of, 48
  occlusion of, in unilateral Moyamoya disease, 276
Pregnancy
  aneurysmal bone cyst in, 391
  vascular malformations in, 305
Primary intramedullary lymphoma, 132
Progression, in unilateral Moyamoya disease, 276
Proliferating potential, of glioma, 320
Proximal ligation, of posterior cerebral artery, with double giant fusiform aneurysms, 48

Radiation, in primary intramedullary lymphoma, 132
Radiosurgery, stereotactic, in small intracranial tumors, 96
Repeat cerebral pan-angiography, in subarachnoid hemorrhage, of unknown etiology, 19
Reperfusion injury, leukocyte involvement in, 261
Repetitive hemorrhage, intratumoral, in medulloblastoma, 378
Rerupture, aneurysm, 117
Residency training, in neurological surgery, in Nicaragua, 356
Rhinorrhea, cerebrospinal fluid, in untreated pituitary adenoma, 336
Ruptured aneurysm, intracranial, 117

Sano Lecture, 157-ed
Scalp, cranial fasciitis of, in children, 146
Schwannoma, melanotic, intramedullary, of cervical spinal cord, 353
Seizures, in vascular malformations in pregnancy, 305
Septum pellucidum, subependymoma, surgically cured cases, 329
Shunt, shunting
  cerebrospinal fluid, 288
  ventricular, revision of, 256
  ventriculoperitoneal, 314
Sibling, familial medulloblastoma in, 341
Single photon emission computed tomography, of medullary venous malformations with arterial component coexisting with arteriovenous malformations, 37
Somatosensory evoked response, in cerebral ischemia, leukopenia and, 261
Sparganosis mansoni, cerebral, surgical removal of, 28
Spinal accessory nerve, reinnervation of avulsed brachial plexus nerve using, 3
Spinal cord
  cavernoma of, 124
  injury, without radiologic abnormality, magnetic resonance imaging of, 281
Staged operation, of craniopharyngioma, third ventricle, 22
Stenosis, basilar, 185
Stereotactic surgery, in small intracranial tumors, 96
Steroids, for granulomatous angiitis of nervous system, 206
Stroke, arachidonic acid metabolite production following, meclofenamate and, 12
Subarachnoid hemorrhage
  aneurysmal, cerebral vasospasm in, 239
  in arteriovenous malformations, 384
  based on triple cisternal blood injection, ultrastructural cerebrovascular changes in, 195
  in double giant fusiform aneurysms of posterior cerebral artery, 48
  in intracranial hemorrhage, alkaptonuric ochronosis and, 213
  of unknown etiology, repeat pan-angiography in, 19
  in vascular malformations in pregnancy, 305
Subdural hematoma, *See* Hematoma, subdural
Subependymoma, surgically cured cases, magnetic resonance imaging and, 329
Subspecialization in neurosurgery, 154-ed
Superior ophthalmic vein, in carotid-cavernous sinus fistula embolization, 57
Supratentorial intraventricular hemangioblastoma, 407
Surgery, for subependymoma, cured cases, 329
Surgical approach, to basilar artery bifurcation and upper basilar trunk aneurysm, 404
Surgical removal, of sparganosis mansoni, cerebral, 28
Syringomyelia, adult Arnold-Chiari malformation associated with, treatment, transoral anterior approach, 284

Tanaka, Kenji, obituary, 81
Temporal lobe epilepsy, 413
Third ventricle, craniopharyngioma, magnetic resonance imaging and total removal of, 22
Thrombectomy, transcerebellar, for giant intracranial aneurysm clipping, 217
Thrombolysis, for basilar artery thrombosis, acute, 43
Thrombosis
  basilar artery, acute, 43
  giant vertebral artery-posterior inferior cerebellar artery, clipping of, transcerebellar thrombectomy for, 217
  venous, in vein of Galen aneurysm, 325
Transclival approach, *See* Transoral-transclival approach
Transcortical atraumatic ventricular approach, balloon needle for, 226
Transoral anterior decompression, for Arnold-Chiari malformation, adult, 284
Transoral-transclival approach, basilar artery reconstruction, in baboon, 185
Transsphenoidal surgery, complication of, false aneurysm of cavernous carotid artery, 142
Transtentorial herniation, after head injury, ultrasound imaging of brain in, 291
Trapping, of false aneurysm of cavernous carotid artery, following transsphenoidal surgery, 142
Trauma, neurological surgery for, in Nicaragua, 356
Tributes, Bucy, Paul C., first honorary membership of The Neurosurgical Association of Thailand, 295
Tumors, *See* specific tumor

Ultrasound, intraoperative, of brain, through unilateral exploratory burr holes, in head injury, 291
Undergraduate medical curriculum, in neurosurgery, statement concerning, 3
Unilateral Moyamoya disease, pediatric, internal carotid artery and posterior cerebral arteries occlusion in, 276
Urokinase, for basilar artery thrombosis, acute, 43

Vascular invasion, medulloblastoma, 378
Vascular malformation, brain
  brain stem
    angiographically occult, 400
    occult, angiographically documented,
  cerebellar venous malformation associated with, 400
  medullary venous, with arterial component coexisting with arteriovenous malformations, 37
  microsurgical treatment of, 384
Vasculitis, granulomatous angiitis and, 206
Vasospasm
  cerebral, effect of early operation on, 239
  in microvascular temporary clip application, pharmacologic response to, 192
Vein of Galen, aneurysm, presenting with recurrent aseptic meningitis and subsequent spontaneous thrombosis, 325
Venous angioma, cerebellar, associated with angiographically occult brain stem vascular malformation, 400
Venous malformations, medullary, with

arterial component coexisting with arteriovenous malformations, 37
Venous thrombosis, in vein of Galen aneurysm, 325
Ventricular shunting, revision, choroid plexus avulsion during, 256
Ventriculitis, cerebrospinal fluid shunt and, 288
Ventriculoperitoneal shunt, in cryptococcal meningitis with hydrocephalus, 314
Vertebral artery, aneurysm, thrombosed, clipping of, transcerebellar thrombectomy for, 217
Vertebral osteomyelitis, pyogenic, diagnosis and management of, 266
Vertebrobasilar ischemia, thrombolytic therapy and posterior circulation extracranial-intracranial bypass for, 43

Warfarin-associated breast necrosis, primary brain tumor and, 395